



**Agenda**  
**Health and Air Quality Applications Program Review**  
**September 19 & 22, 2022 (ET)**

**Day 1: September 19, 2022**

- 12:00 p.m. – 12:05 p.m.**      **Instructions to Presenters and Reminders**  
**Moderators:** Helena Chapman and Laura Judd, Associate Program Managers, NASA Health and Air Quality Applications
- 12:05 a.m. – 12:30 a.m.**      **Session 1: Welcome and Overview**  
John Haynes, Program Manager, Health and Air Quality Applications, NASA Applied Sciences Program, NASA Headquarters
- 12:30 p.m. – 12:50 p.m.**      **Partner Address**  
Angela Werner, Environmental Health Tracking Section, Centers for Disease Control and Prevention
- 12:50 p.m. – 1:05 p.m.**      **Highlights from Communications**  
Aries Keck, Applied Sciences Communications, NASA Headquarters
- 1:05 p.m. – 1:20 p.m.**      **Break**
- Session 2: GEO EO4HEALTH Projects**  
**Moderator:** Helena Chapman, Associate Program Manager, NASA Health and Air Quality Applications, NASA Headquarters/Booz Allen Hamilton
- 1:20 p.m. – 1:25 p.m.**      **A. Multi-Sensor Data for Myanmar Malaria Early Warning System (TBC)**  
Tatiana Loboda, University of Maryland, College Park
- 1:25 p.m. – 1:30 p.m.**      **B. A Geospatial Surveillance and Response System Resource for Vector borne Disease in the Americas**  
Prixia Del Mar, Louisiana State University

- 1:30 p.m. – 1:35 p.m.**      **C.** Predictive Assessment of Transmission Conditions of Cholera in the Environment and Human Population using Earth Observations  
Antarpreet Jutla, University of Florida
- 1:35 p.m. – 1:40 p.m.**      **C.** Environmental Determinants of Enteric Infectious Disease  
Benjamin Zaitchik, Johns Hopkins University
- 1:40 p.m. – 1:45 p.m.**      **D.** Augmentation for COVID-19  
Benjamin Zaitchik, Johns Hopkins University

**Session 3: Air Quality Projects**

**Moderator:** Laura Judd, Associate Program Manager, NASA Health and Air Quality Applications, NASA Langley Research Center

- 1:45 p.m. – 1:50 p.m.**      **A.** Using Remote Sensing and Earth System Models to Improve Air Quality and Public Health in Megacities.  
Susan Anenberg, George Washington University
- 1:50 p.m. – 1:55 p.m.**      **B.** Use of Remote Sensing Data to Improve Air Quality Decision Support Systems used to Protect Public Health  
Arastoo Pour-Biazar, University of Alabama in Huntsville
- 1:55 p.m. – 2:00 p.m.**      **C.** Preparing Key State and Local Health and Air Quality Agencies for Upcoming Earth Observations  
Yang Liu, Emory University
- 2:00 p.m. – 2:10 p.m.**      **Message from Applied Sciences Program**  
Emily Sylak-Glassman, Program Manager, Applied Sciences Program, NASA Headquarters
- 2:10 p.m. – 2:15 p.m.**      **D.** A Satellite Constrained Meteorological Modeling Platform for LADCO States SIP Development  
Jason Otkin, University of Wisconsin, Madison
- 2:15 p.m. – 2:20 p.m.**      **E.** Using CrIS Ammonia Observations to Improve Decision Making on PM2.5 Control Policies  
Matthew Alvarado, Atmospheric & Environmental Research
- 2:20 p.m. – 2:35 p.m.**      **Break**

#### **Session 4: Health Projects**

**Moderator:** Helena Chapman, Associate Program Manager, NASA Health and Air Quality Applications, NASA Headquarters/Booz Allen Hamilton

- 2:35 p.m. – 2:40 p.m.**      **A.** The African Cholera Risk Early Warning System (ACREWS)  
Benjamin Zaitchik, Johns Hopkins University
- 2:40 p.m. – 2:45 p.m.**      **B.** From Space to Front Porch: Connecting Earth Observations to Health Outcomes with an Environmental Exposure Modeling System  
Julia Gohlke, Virginia Polytechnic Institute & State University
- 2:45 p.m. – 2:50 p.m.**      **C.** Source-differentiated Air Quality System to Safeguard the Respiratory Health of US Military Personnel Deployed in Southwest Asia, Djibouti, and Afghanistan  
Meredith Franklin, University of Southern California
- 2:55 p.m. – 3:00 p.m.**      **D.** Satellite-aided Regional Dust Forecasting for Valley Fever Surveillance, Highway Accident Prevention, and Air Quality Management in the Southwestern United States  
Daniel Tong, George Mason University
- 3:00 p.m. – 3:05 p.m.**      **E.** Improving Malaria Decision Support with Earth Observations  
John Beck, University of Alabama in Huntsville
- 3:05 p.m. – 3:10 p.m.**      **E.** Early Warning of Synoptic Air Quality Events to Improve Health and Well Being in the Greater Caribbean Region  
Pablo Méndez-Lázaro, University of Puerto Rico-Medical Sciences Campus
- 3:10 p.m. – 3:15 p.m.**      **F.** Rapid Response: Study of Imminent Interactions between SARS-CoV-2 (COVID-19), Air Quality due to Saharan Dust and Urban Aerosols, and Social-Environmental Factors in Puerto Rico in Summer 2020: Proxies of Health Risks in Small Island States in the Caribbean Region  
Pablo Méndez-Lázaro, University of Puerto Rico-Medical Sciences Campus
- 3:15 p.m. – 3:20 p.m.**      **G.** Rapid Response to Assess the Risk of Arbovirus Outbreaks Triggered by Climate Events  
Michael Wimberly, University of Oklahoma
- 3:20 p.m. – 3:35 p.m.**      **Break**

**Session 6: HAQAST, TEMPO & MAIA**

**Moderator:** Laura Judd, Associate Program Manager, NASA Health and Air Quality Applications, NASA Langley Research Center

- 3:35 p.m. – 3:45 p.m.**      **Health and Air Quality Applied Sciences Team (HAQAST) Update**  
Tracey Holloway and Jenny Bratburd, University of Wisconsin-Madison
- 3:45 p.m. – 3:50 p.m.**      **Tropospheric Emissions: Monitoring Pollution (TEMPO) Mission**  
Aaron Naeger, University of Alabama in Huntsville
- 3:50 p.m. – 3:55 p.m.**      **Multi-Angle Imager for Aerosols (MAIA) Mission**  
Abigail Nastan, Jet Propulsion Laboratory
- 3:55 p.m. – 4:30 p.m.**      **Town Hall**  
Discussion of Future Goals, Partnerships, and Opportunities  
John Haynes, Program Manager, Health and Air Quality Applications, NASA Applied Sciences Program, NASA Headquarters
- 4:30 p.m.**                      **Adjourn**



**Day 2: September 22, 2022**

*(Required for A.37 ROSES 2021, Optional for A.37 ROSES 2016 and 2017)*

- 12:00 p.m. – 12:10 p.m.**      **Welcome and Overview**  
John Haynes, Program Manager, Health and Air Quality Applications, NASA Applied Sciences Program, NASA Headquarters
- 12:10 p.m. – 12:30 p.m.**      **Overview of Reporting Requirements**  
Helena Chapman and Laura Judd, Associate Program Managers, NASA Health and Air Quality Applications

**Session 1: Health Projects**

**Moderator:** Helena Chapman, Associate Program Manager, NASA Health and Air Quality Applications, NASA Headquarters/Booz Allen Hamilton

- 12:30 p.m. – 12:35 p.m.**      **A. Assimilation of Earth Observations to Improve and Enhance Global Predictive Ability of Forecasting Risk of Cholera Outbreaks**  
Antar Jutla, University of Florida
- 12:35 p.m. – 12:40 p.m.**      **B. Quantifying Distributional Health Damages of Extreme Weather Events**  
Julia Gohlke, Virginia Polytechnic Institute & State University

